

Processing and interpretation of gravimetric data based on «native» continuous wavelet transform

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Abstract

© SGEM2014 All Rights Reserved. In this study we present a method for interpretation of gravimetric data based on the so-called “native” wavelet basis. We show that this approach has several distinct advantages over commonly used methods, including a simple way of obtaining formal solutions of the inverse problem, easy identification of the causative sources, and efficient search for solutions of the nonlinear inverse problem in the wavelet domain.

Keywords

Avelet transform, Bouguer anomaly, Gravimetry, Inverse problem